Depth 6	Contents 7	Reference to last Measurement 8
93-	Vr No 11 Date 10.10.13	
772-	Cheq No 663352 Date 10.10.13	
465-	Amount Rs 1385000 =00	
693-		
00-	Acct Signed	Ex Engineer
00-	B T Pura Division BBMP	B T Pura Division BBMP
80		
303 =00		

Job code: 010-16-000038

First and Final

SRR-A10-198/16-17

28/11/2016

M.A.R. 57 (Rule 116)

Measurement Book No. A/10 81236

Serial No.....

Improvements to Roads and drains at Byrappa garden in ward No. 10 (Doddabommanahalli)

Name of work.....From.....To.....

Name of Contractor of nature of Agency. Executive Engineer, KRIDL

Date of commencement of work..... BR- 646/29-11-16

Date 1	Full description, etc, of work 2	Dimensions Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	Work order No: BBMP/EE/BTP/WO/94/2016-17 Date: 05-08-2016						
	Est cost: 9.87 Lakhs						
	Date of Recording: 22-10-2016.						
	1) Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2m and an average lift upto 0.5m excavated surface levelled and sides neatly dressed the disposal earth to be levelled neatly after breaking of clods complete as per specification						
	Tank platform	2	1.50	0.60	1.00	1.80	
		2	0.60	0.60	1.00	0.72	

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	CC Road 1st cross Byrappa garden	1	30.00	(4.8+4.5)	0.15	20.93	
		1	30.00	(4.5+4.4)	0.15	20.03	
		1	14.80	(4.4+4.5)	0.15	9.88	
	2nd cross		20.00	4.50	0.15	13.50	
						66.65 m³	
					@ Rs.	81.62/m³	5440.00
3)	providing and laying in position plain cement concrete (1:4:8) with opc cement @ 180 kg/m³ with 40mm and down size graded granite metal/coarse aggregates @ 0.85 cum and fine aggregate @ 0.57 cum machine mixed concrete laid in layers not exceeding 15cm thick well compacted in foundation and plinth including cost of all material labours etc complete as per specification	2	1.50	0.60	0.15	0.27	
		2	0.60	0.60	0.15	0.11	

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

M.A.

Serial No.....

Name of work.....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Number
1	2	3
	CC Road 1st cross Byrappa garden	1
		1
		1
	2nd cross	1
3)	providing and constructing	
	foundation with cement	

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

OK

th	Depth 6	Contents 7	Reference to last Measurement 8
·5)	0·15	20·93	
·4)	0·15	20·03	
4·5)	0·15	9·88	
	0·15	13·50	
		66·65 m³	
Rs.	81·62/m³		5440=00
t concrete			
own size			
ates @ 0.57 cum machine			
5 cum thick well compacted			
ieral labours etc complete			
0	0·15	0·27	
0	0·15	0·11	

M.A.R. 57 (Rule 116)

Measurement Book No. A/10 81237

Serial No.....

Name of work.....From.....To.....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	CC Road 1st cross Byrappa Garden	1	30.00	(4.8+4.5)	0.15	20.93	
		1	30.00	(4.5+4.4)	0.15	20.03	
		1	14.80	(4.4+4.5)	0.15	9.88	
	2nd cross	1	20.00	4.50	0.15	13.50	
						64.50 m³	
				Rs. 4976.70/m³			320997=00
	Measurement continued on: 25-10-2016						Radha AE 24/10/16
3)	Providing and constructing granite (trap) ballast size stone masonry in foundation with cement mortar 1:6 stone hammered dressed in course						

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore-97

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	not less than 20 cm high bond stones at 2 m apart in each course including cost of material, labour, curing complete as per specification						
	Below ground level for Tank Platform	2	1.50	0.60	0.90	1.62	
		2	0.60	0.60	0.90	0.65	
						2.27 m³	9213
					@ Rs. 4058.74/m³		9205=00
							Jadhav AE
4)	providing and constructing granite (trap) / basalt rise stone masonry in basement with cement mortar 1:6 edges of stones chisselled dressed in course not less than 15 cm high bond stone at 2 m apart in each course including cost of material, labour curing complete as per specification						
		2	1.50	0.45	0.90	1.22	
		2	0.60	0.45	0.90	0.49	
						1.70 m³	8185
					@ Rs. 4814.52/m³		8189=00
							Jadhav AE

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

Serial No.....

Name of work.....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Numb
1	2	3
5)	providing and laying in positi with cement @ 240 kgs with 20 metal coarse aggregate @ 0.878 mixed concrete laid in layers in foundation, plinth and cil MOM of machinery curing etc comp	
	concrete for platform	1

Depth 6	Contents 7	Reference to last Measurement 8
in each course as per specification		
0.90	1.62	
0.90	0.65	
	2.27 m³	
58.74/m³		9213
		9205=00
		Jadhav AE
se stone masonry chisalled dressed apart in each as per specification		
0.90	1.22	
0.90	0.49	
	1.70 m³	
.52/m³		8185
		8189=00
		Jadhav AE

M.A.R. 57 (Rule 116)

Measurement Book No. A/10. 81238

Serial No.....

Name of work.....From.....To.....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date 1	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
5)	providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240 kgs with 20 mm and down size graded granite metal coarse aggregate @ 0.878 cum and fine aggregate @ 0.459 cum machine mixed concrete laid in layers not exceeding 15 cm thick well compacted in foundation, plinth and cills, including cost of all materials labour tools & machinery curing etc complete						
	concrete for platform	1	1.50	1.50	0.10	0.23	
		4	2.50	0.90	0.10	0.90	
						1.13 m³	6090
					Rs. 5389.04/m³		6063=00
							Jadhav AE

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
6)	Filling available excavated earth (excluding rock) in sides & foundation upto plinth in layers not exceeding 20cm in depth compacting each deposited layers by ramming after watering with lead upto 50m and lift upto 1.5 m including cost & all labours complete as per specification						
		Qty vide Item No: ①				66.65 m³	
					Rs. 127.20/m³		8478=00
							Jadhav AE
7)	Laying reinforced cement concrete pipe NP4 / prestressed concrete pipe for culvert on bed of class bedding & granular material in double row including fixing collar with cement mortar 1:2 but excluding excavation protection works backfilling concrete and masonry works in head walls and parapet complete as per specification						
		3	3.00	-	-	9.00 m	
					Rs. 23586.06/m		212275=00
							Jadhav AE
8)	providing and fixing to wall, ceiling and floor galvanised mild steel						

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore-97

M.A

Serial No.....

Name of work.....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Numb
1	2	3
	Tube 50mm dia nominal s 5.2kg/m) B class including & equipment and fixing re. co	1
9)	providing and fixing to wall, Tube 32mm dia nominal bor	1

Depth 6	Contents 7	Reference to last Measurement 8
...ni sides of foundation ...pacity each deposited ...d lift upto 1·5 m ...ion	66·65 m³	8478=00 Jadhav AE
...127·20/m³		
...ated concrete pipe ...d in double row ...cluding excavation ...in head walls	9·00 m	
...23586·06/m		212275=00 Jadhav AE
...vided I mild steel		

M.A.R. 57 (Rule 116)

Measurement Book

No. A/10 81239

Serial No.....

Name of work.....From.....To.....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date 1	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
	Tube 50 mm dia nominal bore with fittings (including grade weight 5·2 kg/m) B class including cost of all materials labour, charges upto site of equipment and fixing etc. complete.	1	15·00	-	-	15·00 m	
					@ Rs. 534·24/m		8014=00 Jadhav AE
9)	providing and fixing to wall, ceiling and floor galvanised / mild steel tube 32 mm dia nominal bore with fittings	1	6·00	-	-	6·00 m	
					@ Rs. 366.76/m		2201=00

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	10) providing and fixing in position brass stop cock of approved quality 32 mm nominal bore including cost of all materials labour and I+O+M of equipment with all leads complete as per specification	4	-	-	-	4 NO	
					@Rs. 167.48/each		670=00
	Measurement continued on: 26-11-2016						Sadha AE 25/10/16
	11) providing and laying cement concrete using 20mm and down size granite jelly of ready mixed concrete (RMC) for R.C.C works laid in 15cm thick layers and well compacted vibrating, curing, finishing with necessary cement mortar form works and scaffolding to withstand pumping & concrete with all lead and lift complete Ready mixed cement concrete M-20 (1:1.5:3) for raft foundations, columns, roofing main and secondary beams.						
	Byrappagardem Ist cross	1	30.00	(4.8+4.5)	0.10	13.95	
		1	30.00	(4.5+4.4)	0.10	13.35	

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Mea

Serial No.....

Name of work.....Fr

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Number
1	2	3
	Checked E.E. 28/11 2 ಪಟ್ಟಿ.2	1 1
	Assistant Executive Engi Vidyaranyapura Sub Div BBMP Bangalore -	
12)	Vaccum Dewatering with vaccum with slain floater clubbed with f I+O+M & machinery screed vibrating complete as per specification	
	Byrappagardem Ist cross	1

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
		1	30.00	$\frac{(4.5+4.4)}{2}$	-	133.50	
		1	14.80	$\frac{(4.4+4.5)}{2}$	-	65.86	
	2nd cross		20.00	4.50	-	90.00	
						427.50 m²	
						@ Rs. 97.20/m²	41553=00
							Sadhar AE
13)	Providing groove cutting for width of 5mm to 10mm and depth 80mm - 100mm including cost of cutting machine generator and HSD of machinery including cost of blade coolant etc including cleaning of groove and providing sand and hot bitumen fillers and fillet metal etc including cost & conveyance of all materials labours lead and lift charges etc complete						
		8	4.50	-	-	36 m	
		3	4.50	-	-	13.50	
						49.50 m	6148=00
						@ Rs. 124.20/m	

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

Serial No.....

Name of work.....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Numb
1	2	3
14)	Lead for disposal of debris mechanical means including	

Depth 6	Contents 7	Reference to last Measurement 8
-	133.50	
-	65.86	
-	90.00	
	427.50 m²	
7.20/m²		41553=00
		Sadhan AE
mm and depth		
generator and HOM		
including cleaning		
lers and fillet metal		
ours lead and lift		
-	36 m	
-	13.50	
	49.50 m	6148=00

CR. 124.20/m

M.A.R. 57 (Rule 116)

Measurement Book No. A/10 81241

Serial No.....

Name of work.....From.....To.....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date 1	Full description, etc, of work 2	Dimensions Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
12)	Lead for disposal of debris shall be payable at carriage rates by mechanical means including loading and unloading etc complete						
		Qty vide Item No. (1)				53.32 m³	
					CR. 100.08/m³		5336.00
							~~905264=00~~ 9,05,293-
					Subtotal		72429=00
					KRISL charges 8%		9053=00
					Travel party chgs e/l		~~986738=00~~
					Grand total		9,86,769

Sadhan AE 26/11/16

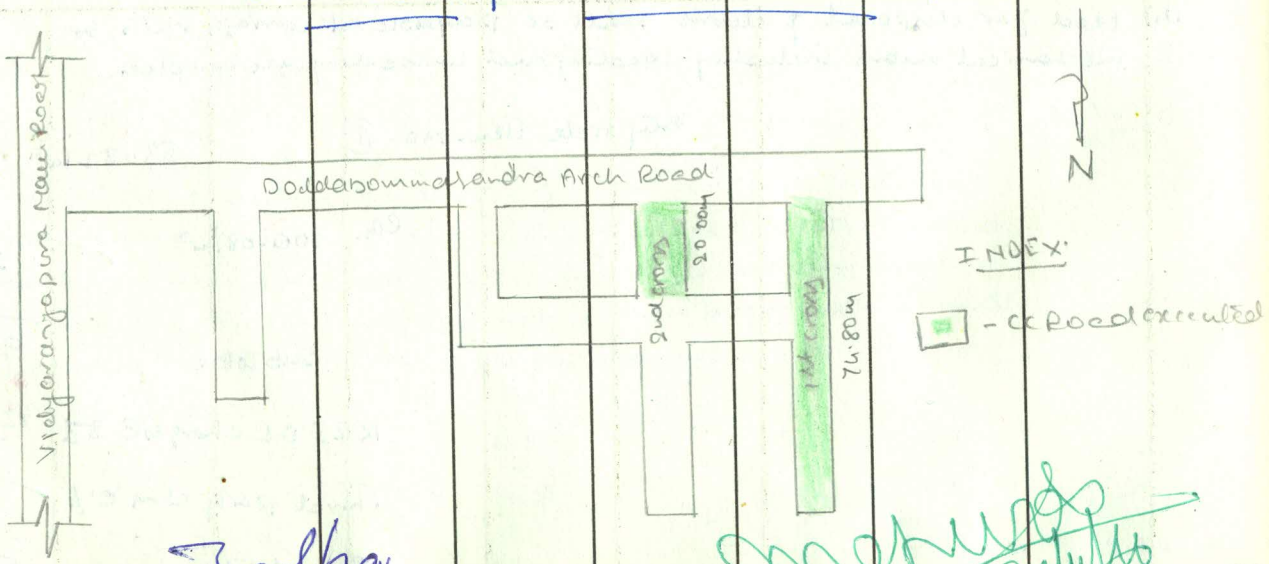
MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8

certificate:

certified that the above work done is satisfactorily.

Sketch showing the work done location.



Jadhav
AE 28/11/16

Assistant Executive Engineer
Vidyaranyapura Sub Division

M.

Serial No.....

Name of work.....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Num
1	2	3

98673&-0

13419

8.52.541-00

epth 6	Contents 7	Reference to last Measurement 8
one is satisfactorily.		
calculation.		
	INDEX.	
	- CC Road executed	

Executive Engineer
yapura Sub Division

M.A.R. 57 (Rule 116)

Measurement Book

No. A/10 81242

Serial No.....

Name of work.....From.....To.....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date 1	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
						Total R: 986738-0	
						ST- 19735-0	
						VAT- 39470-0	
						CM- 9867-0	
						CF- 987-0	
						FSD- 49337-0	
						LR 14801-0	
						Adj- 1.34.197-0	
						Cmpl 8.52.541-0	

986738-0

134197-0

8.52.541-0

29/11